**www.makswell.eu**

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Report on website and e-platform development

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**Deliverable D6.1**

**Report on website and e-platform development**

**Summary**

This report describes the main functionalities and features of website (e-platform) of MAKSWELL project. In particular, the report illustrates the design, the functionalities and main features of both the public and private area of MAKSWELL website. In the following, are summarized the architecture, the technical characteristics and the main functionalities of the site, which guided the development activities.

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# 1. Structure, design and graphics elements

The internet domain of the website was registered in November 2017 and the web site is now on line as [www.makswell.eu](www.makswell.eu) The website has been implemented and developed in interaction with the Coordinator (Istat) and other partners through the beta version of website for the purposes of progressive content sharing and refinement. The website has been implemented using a content management system (CMS), and other "open source" software. The hosting service has been purchased by Aruba, for the technical characteristics of the hosting service see

Annex 2: Hosting – Domain features2.

The website is structured in three different areas:

1. **Administrator area**, for the management of the content;
2. **Public area**, where the contents (general information about the project, deliverables, policy brief, working papers, news etc.) and the tools (forums, event calendars) are available for all users;
3. **Private area** (2 levels):
   - First level, opened to all users who register through a registration and authentication procedure (Virtual Working Group). Community members will be able to participate in the forums, register for events and consult all the contents included in the first level reserved area;
   - Second level, available only for project's partners who have authentic/valid accessibility. The aim is to provide a virtual space for sharing working papers, monitor the progress of project activities, comment documents etc. The goal is to make available a virtual space, divided into working groups (the groups correspond to each Work Package they are in charge of), for sharing work documents to various progress states. Structurally, the second level reserved area differs from the first due to the presence of sections and menus exclusively dedicated to working groups. Then entering the private area of the platform, only for the enabled members, advanced features are activated in addiction to those foreseen for the first level. In the "private area" menu a sub-menu dedicated to each WP is activated, where the user can enter the WP Home page.

The platform guarantees flexible management of permissions on content, modules and various components. At any time, depending on particular needs, the permissions assigned to the different user levels can be modified. Content indexing techniques will be adopted to facilitate in-house search. Strategies and activities of Search Engine Optimization (SEO) will also be implemented, to facilitate the indexing of content by search engines, facilitating the dissemination of content.

## 1.1. Design and graphics elements

For the graphic development a flexible template has been adopted, with the capability of complete customization, showcasing a modern design and images. The project's logo has been defined in close collaboration with the coordinator and after consultation with the all partners. The website is responsive (mobile friendly for mobile devices), with drop-down menus for easy navigation. In addition, the web site is compliant with the current standards for accessibility and usability. Furthermore, the visual identity of the website is consistent with other communication tools (brochures, policy briefs etc.).

## 2. Main features of the website

The main features and functionalities of the website can be summarized as follows:

General information about the project
- About MAKSWELL
- Consortium
- Advisory Board

Outputs and document consultation (report, policy brief, working papers, video etc)

To facilitate the consultation/display of documents and other contents (reports, policy briefs, videos, etc.) will be used a classification system divided into categories. A web link section is planned (other bodies, other projects, etc.).

Communication tools
- Information modules (latest news)
- Event management system (_event calendar_): the website provides a calendar module, a frontend event presentation module (with the possibility to insert images, attachments or a google map), and the creation of individual registration forms for individual events, using custom fields. Possibility to export registered lists in csv format.
- For all users is available a calendar and a timeline in which all the deadlines of the deliverables, foreseen by the project, are highlighted with an indication of the progress for each single deliverable whose progress will be indicated as follows:
  o under processing;
  o successfully completed;
  o late with respect to programming.
- Virtual forum. The discussions will be visible to all users, while participation will only be possible for registered users. The discussions will be open only by administrators.
- Social media integration (facebook, twitter, linkedin).

Other features/utilities
- User authentication through registration form (for event registration, forum participation and reserved area). Users can log in by authenticating themselves to their profile to modify or update their data.
- Search website.
- RSS feed system.
- Advanced management of statistics on the website, with the creation of reports.

**Stages of activity: design, development and management of the website**
Development (3M)
- Design document (functionality and demo)
- Domain registration and hosting (eight years)
- Definition and gathering of data/archives
- Website development
- Start-up (data entry made available by ISTAT)

**Management during the project** (4M-30M)
- Ordinary maintenance
- Content entry: all the materials for the site population related to the project will be provided by ISTAT
- Communication management, documents, etc.

**Home page**

Here below an illustrative example of the home page is shown. Please note that the graphic setting and the logo are exemplary, as the graphic design (logo, colors, structure, layout, etc.) is being studied and implemented.

## 2.1. Private Area

The private area is structured in two different levels:

1. **Level one**: open to all users who register through a form on the www.makswell.eu platform that assigns the password automatically at the time of registration. Anyone who wants can register. Community members will be able to participate in the forums, register for events and consult all the contents included in the level one of reserved area.

2. **Level two**: available only for project's partners who have authentic/valid accessibility. Registration of partner is performed by MIPA. Password is assigned by MIPA taking into account the WPs of competence of each partner as foreseen by the project. Through username and password of level two, each partner has the access to all documents produced by working group (download, comments, etc..) referred to all WPs. In addition, only on the WPs of its competence, the partner will be able to upload and to delete documents. At any time such permits may be revoked or extended, allowing a dynamic management of permits according to specific work requirements. All project partners are enabled to view and use the comment function, where it is active.

    Currently, 8 WPs have been created in line with the project's deliverable list structure. As a preliminary step, clicking on each WP the user can see the list of tasks and various project deliverables required by each WP.

    For each task and deliverable the user can see an "activity sheet" which will be the virtual working room in which:

    - perform the up-load, the down-load and the management of the various useful documents referred to the single tasks and various editions of the deliverables;
    - for each document uploaded, trace the author, the editing date and progress; and other information if needed;
    - allow comments from the working group referred to the single tasks and deliverables (function different from the forum);
    - finally, the same area could be a repository of other project contents for internal use considered useful.
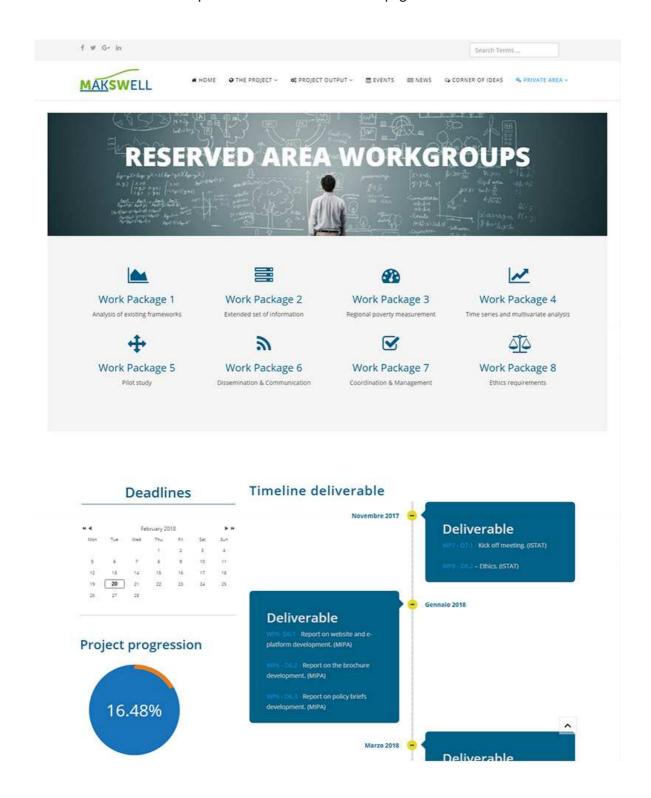
**Table 1 - User levels and access to the various features**

| Reserved Area | Contact - info | Participation in the forum | Events registration | Working group participation |
|---|---|---|---|---|
| Level 1 | X | X | X | |
| Level 2 | X | X | X | X |

Here below an illustrative example of the reserved area home page is shown:

Here below a screenshot of the "Work Package 4" page is shown; in the left menu the user can quickly access the various tasks and deliverables.

*Annex 1: Data Security Platform MAKSWELL*

The systems used by the platform allow to prevent public and indiscriminate access to information and services in the reserved area by subordinating its use, viewing and/or extraction to a specific registration and authentication procedure.

Through the platform, data are collected and voluntarily provided by the user who registers in the private area. The e-platform implements the SSL Certificate DV (Domain validated). The SSL certificate (Secure Sockets Layer) is a protocol (https) designed to allow applications to transmit information securely. The certificate is supported by the main web browsers on PC, tablet and smartphone devices.

The provision of the data required at registration is necessary to enable the use of the services offered by the www.makswell.eu web platform. Therefore, according to art. 13 of the Privacy Code (D.Lgs 196/2003[1]), the data will be processed, after informing and consent made according to law, for the following purposes:

- management and registration at www.makswell.eu web platform;
- managing active services on the www.makswell.eu web platform;
- comply with any legal obligation required by law, regulation or EU legislation;
- potential sending of newsletters, e-mails, or other communications about the activities of the MAKSWELL project.

Personal data is handled with automated tools for the time strictly necessary to achieve the purposes for which they were collected. Specific security measures are observed to prevent data loss, misuse or incorrect use and unauthorized access. Data processing is done by using manual, computer or telematic tools that store, manage, and transmit the data. In particular, for data security, the Company Aruba S.p.A.www.aruba.it) that provides hosting services to the platform, uses firewalls and security systems that prevent unauthorized access to information systems. In addition, the data are kept by the Company Aruba S.p.A. (http://www.aruba.it/) for the period strictly necessary and in any case in accordance with the relevant legal provisions in force.

Data processing will be performed in the following ways:

- Identifying the person in charge of data processing
- Data processing may consist of collection, registration, organization, storage, consultation, processing, modification, selection, extraction, comparison, use, interconnection, blocking and deletion of data; it can be done by means of computer, telematics and/or paper tools suitable to guarantee the security and confidentiality of the same in accordance with the art. 31 of Privacy Code (D.Lgs 196/2003) on minimum security measures for the processing of personal data.
- Data is collected through the web platform and archived on servers provided by Aruba S.p.a. in full respect of the protection of personal data, as foreseen by current regulations.
- Personal data directly related to the user will not be provided to any third party under any circumstances except under legal orders issued by public security bodies.
- Doing data processing, all organizational and technical measures will be taken to ensure an adequate level of safety as set out in Annex B of Privacy Code (D.Lgs 196/2003).
- Data may be disclosed to Public Authorities, Police or other public and private entities but solely for the purpose of meeting legal, regulatory or community obligations.
- Data will be deleted at the request of the user at any time.
- The data may be requested by the user, if they are still in possession of the holder, after communication and written request or by email.

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[1] The new provisions of the European regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation) 2016/679 will also taken into account.

*Annex 2: Hosting – Domain features*

| Hosting Linux | |
|---|---|
| **Disk space and traffic** | Unlimited |
| **Automatic backup of web space** | ✓ |
| **Domains included** | 1 |
| **DNS management** | ✓ |
| **DV SSL certificate** | ✓ |
| **Email boxes (1GB)** | 5 |
| **Email IMAP** | ✓ |
| **Antivirus e Antispam** | ✓ |
| **Webmail** | ✓ |
| **Over 200 applications available** | ✓ |
| **Supported languages** | PHP 5.3.x, 5.4.x, 5.5.x, 5.6.x, 7, 7.1, Perl 5.10.x, Python 2.7.x, Ruby 1.9.x, SSI e altri |
| **Bandwidth** | 2Gbit/s best effort |
| **Control panel** | ✓ |
| **Assistence 24/7** | ✓ |

| MySQL Server | |
|---|---|
| **Database** | 5 |
| **Space** | 3 GB |
| **DBMS: database management system** | ✓ |
| **Space for the transaction logs** | Unlimited |
| **Number of users** | 1 |
| **Hourly queries per user** | Unlimited |
| **PhpMyAdmin** | ✓ |
| **Import SQL file (above 10MB)** | ✓ |
| **Assistence 24/7** | ✓ |

| Service Backup MySQL | |
|---|---|
| Saving the last 7 days of database backup | |
| Possibility to restore backups giornalieri | |
| Possibility to download backups locally | |
| Assistence 24/7 | |

| Statistics Service | |
|---|---|
| Ability to receive and customize reports | |
| Detail of all access to your website, pages visited | |
| Various languages available | |
| Assistence 24/7 | |